

Amendments to the Drawings

The attached sheet of drawings includes changes to Figure 3. The sheet, which includes Figure 3, replaces the original sheet including Figure 3. In Figure 3, a schematic illustration of a stepping motor and an electromagnetic oscillating part has been inserted.

Remarks

The Office Action of November 3, 2010, has been carefully considered.

It is noted that the Drawings are objected to under 37 CFR 1.83 (a).

Claim 73 is rejected under 35 USC 112, second paragraph.

Claim 73 is rejected under 35 USC 102 (b) over the patent to Longworth.

Claims 37, 39-44 and 63 are rejected under 35 USC 103 (a) over the patent to Bachrach in view of the patent to Jackson and the patent to Wellington.

Claim 70 is rejected under 35 USC 103 (a) over Bachrach in view of Jackson and Wellington, and further in view of the patent to Audsley.

Claims 37-39, 45, 46, 49-51, 57 and 66-69 are rejected under 35 USC 103 (a) over JP 50060808 in view of Jackson and Wellington.

Claims 47 and 48 are rejected as being unpatentable over JP '808 in view of Jackson and Wellington, and further in view of the patent to Backlund.

Claims 54-56 and 58-62 are rejected under 35 USC 103 (a) over JP '808 in view of Jackson and Wellington, and further in view of the patent to Henriksen.

Claims 64 and 65 are rejected under 35 USC 103 (a) over JP '808 in view of Jackson and Wellington, and further in view of the patent to Mosley.

In connection with the Examiner's objection to the drawings, Applicant has enclosed herewith a replacement sheet in which Figure 3 has been amended to schematically illustrate an electromagnetic oscillating part and a stepping motor. Both of these elements are well known to those skilled in the art and the schematic illustration adequately depicts these elements so that the skilled artisan would understand the invention.

In view of these considerations it is respectfully submitted that the objection to the drawings under 37 CFR 1.83 (a) is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file particularly point out and distinctly claim the subject matter which Applicant regards as the invention. Applicant has amended the claims to address the instances of indefiniteness pointed out by the Examiner.

In view of these considerations it is respectfully submitted that the rejection of claim 73 under 35 USC 112, second paragraph, is overcome and should be withdrawn.

It is respectfully submitted that the claims now on file differ essentially and in an unobvious, highly advantageous manner from the constructions disclosed in the references.

Turning now to the references, and particularly to the patent to Longworth, it can be seen that this patent discloses a high pressure blower. Applicant submits that it is readily apparent from the drawings of Longworth that Longworth discloses a completely different piston than in the presently claimed invention. In an effort to better bring out the differences, Applicant has amended claim 73. Longworth does not disclose a valve strip formed in a mirror image with respect to a central longitudinal axis, with the inlet valves and the outlet valves lying opposite one another with respect to the center longitudinal axis of the strip, as in the presently claimed invention. Furthermore, claim 73 has been amended to recite that the housing wall is hollow and has a transverse wall that separates the outlet valve and the inlet valve. This is not disclosed by Longworth.

In view of these considerations it is respectfully submitted that the rejection of claim 73 under 35 USC 102 (b) over the above discussed reference is overcome and should be withdrawn.

The patents to Bachrach and Jackson were discussed in previously filed amendments and are acknowledged by the Examiner as not teaching flocking as recited in claim 37 of the present application.

For the flocking feature the Examiner relies on the patent to Wellington. The Wellington reference refers to a pump having continuously rotating impellers. In the presently claimed invention, on the other hand, there is an oscillating movement. Applicant submits that with oscillating parts the flocking is always moving in opposite directions, i.e. the movement changes directions. This change in motion of the flocking would not be considered advantageous by one skilled in the art prior to the filing of the present application, particularly in terms of preventing fluid leakage and improved volumetric efficiency. In fact, the changing movement of the flocking in a pump having oscillating parts would lead one skilled in the art to believe there would be serious concerns regarding fluid leakage and volumetric efficiency and thus, the skilled artisan would not obviously use flocking in such a situation.

In view of these considerations, it is respectfully submitted that the rejection of claims 37, 39-44 and 63 under 35 USC 103 (a) over a combination over the above discussed references is overcome and should be withdrawn.

The same arguments apply equally to the rejection of claim 37 based on JP 50060808 as the primary reference combined with Jackson and Wellington. This combination of references does also not teach flocking coated on an oscillating pump piston, as in the presently claimed invention. Thus, it is respectfully submitted that the rejection of claims 37-39, 45, 46, 49-51, 57 and 66-69 under 35 USC 103 (a) is overcome and should be withdrawn.

The additional references which were cited in rejecting claims 47, 48, 54-56, 58-62, 64, 65 and 70 have also been considered. Applicant submits that none of these references add anything to

the teachings of the references cited against independent claim 37 so as to suggest the presently claimed invention. Therefore, it is respectfully submitted that the rejections of these claims under 35 USC 103 (a) are overcome and should be withdrawn.


Reconsideration and allowance of the present application are respectfully requested.

No fees are believed to be due. However, if any fee is determined to be due, authorization is hereby given to charge the fee to deposit account #02-2275. Pursuant to 37 C.F.R. 1.136(a)(3), please treat this and any concurrent or future reply in this application that requires a petition for an extension of time for its timely submission as incorporating a petition for extension of time for the appropriate length of time. The fee associated therewith is to be charged to Deposit Account No. 02-2275.

Respectfully submitted

LUCAS & MERCANTI, LLP

By:

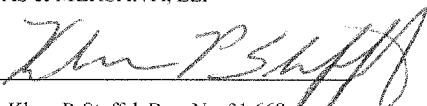

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